

## ***CLAIMS***

The following is a copy of Applicant's claims that identifies language being added with underlining ("\_\_\_") and language being deleted with strikethrough ("—"), as is applicable:

1. (Currently Amended) A composition, comprising:
  - a basic component;
  - an acidic component;
  - at least one acrylate component;
  - oxidizing agent;
  - reducing agent; ~~and~~
  - a plurality of fibers; and
  - a binder comprising a viscosity modifier and a surface tension modifier, the binder capable of stimulating a reaction between the basic component and the acidic component and wherein a portion of the binder is capable of undergoing a polymerization reaction between at least one acrylate component, the oxidizing agent, and the reducing agent, wherein the polymerization reaction being initiated by the redox reaction between the oxidizing agent and the reducing agent.
2. (Original) The composition of claim 1, wherein the basic component is selected from metal oxides, metal oxide salts, reactive glasses, and combinations thereof.
3. (Original) The composition of claim 1, wherein the acidic component is selected from alginic acid, gum arabic, nucleic acids, pectins, proteins, carboxymethylcellulose, ligninsulphonic acids, acid-modified starch, polyacrylic acid, polymethacrylic acid, polymethacrylic acid copolymer with methyl methacrylate, polyvinyl sulphonic acid, polystyrene sulphonic acid, polysulphuric acid, polyvinyl phosphonic acid, polyvinyl phosphoric acid, the homo- and copolymers of unsaturated aliphatic carbonic acids, the anhydrides of the unsaturated aliphatic carbonic acids, and combinations thereof.

4. (Original) The composition of claim 1, wherein at least one acrylate component is selected from mono-functional acrylates, di-functional acrylates, tri-functional acrylates, tetra-functional acrylates, and combinations thereof.
5. (Original) The composition of claim 1, wherein the oxidizing agent selected from persulphates, benzoyl peroxides, hydroperoxides, cobalt (III) salts, iron (III) salts, hydrogen peroxides, and combinations thereof.
6. (Original) The composition of claim 1, wherein the reducing agent is selected from water-soluble amines, metal salts, hydrazines, and combinations thereof.
7. (Original) The composition of claim 1, wherein the viscosity modifier is selected from ethanol, hexanediol, pentanediol, ethylene glycol diacetate, potassium aluminum sulphate, isopropanol, ethylene glycol monobutyl ether, diethylene monobutyl ether, dodecyldimethylammonium propionate sulphonate, glycerine triacetate, ethyl acetoacetate, polyvinyl pyrrolidone, polyethylene glycol, polyacrylic acid, sodium polyacrylate, and combinations thereof.
8. (Original) The composition of claim 1, wherein the surface tension modifier is selected from ethanol, hexanediol, pentanediol, tergitols, ethylene glycols, fluorosurfactants, and combinations thereof.
9. (Original) The composition of claim 1, wherein the basic component is from about 20% to 90% by weight of the solid freeform composition, the acidic component is from about 1% to 40% by weight of the solid freeform composition, the at least one acrylate component is from about 5% to 50% by weight of the solid freeform composition, the oxidizing agent is from about 0.1% to 10% by weight of the solid freeform composition, the reducing agent is from about 0.1% to 10% by weight of the solid freeform composition, the viscosity modifier is from about 1% to about 30% by weight of the solid freeform

composition, and the surface tension modifier is from about 0.01% to about 30% by weight of the solid freeform composition.

10. (Original) The composition of claim 1, wherein the binder is a polar binder.
11. (Currently Amended) The composition of claim 10, wherein a powder includes the basic component, the acidic component, a polyacrylate component, the fibers, and the oxidizing agent; and wherein the polar binder includes a polar solvent, an acrylate component, the surface tension modifier, the viscosity modifier, and the reducing agent.
12. (Currently Amended) The composition of claim 10, wherein a powder includes the basic component, a polyacrylate component, the fibers, and the oxidizing agent; and wherein the polar binder includes a polar solvent, the acidic component, an acrylate component, the surface tension modifier, the viscosity modifier, and the reducing agent.
13. (Currently Amended) The composition of claim 10, wherein a powder includes the basic component, a first acidic component, a polyacrylate component, the fibers, and the oxidizing agent; and wherein the polar binder includes a polar solvent, a second acidic component, an acrylate component, the surface tension modifier, the viscosity modifier, and the reducing agent.
14. (Original) The composition of claim 1, further comprising components selected from a retardant, an inhibitor, a wetting agent, a colorant, an organic filler, an inorganic filler, and combinations thereof.
15. (Original) The composition of claim 14, wherein the organic filler is selected from polymethylmethacrylate, polyhydroxyethylmethacrylate, and combinations thereof.

16. (Original) The composition of claim 14, wherein the inorganic filler includes fumed silica.
17. (Original) The composition of claim 1, further comprising:  
a light sensitive radical initiator, wherein a polymerization reaction between the at least one acrylate component and the light sensitive initiator occurs upon exposure to light energy.
18. (Original) The composition of claim 17, wherein the light sensitive initiator is selected from ultraviolet initiators, visible initiators, and combinations thereof.
19. (Original) The composition of claim 17, wherein the basic component is from about 20% to 90% by weight of the solid freeform composition, the acidic component is from about 1% to 40% by weight of the solid freeform composition, the at least one acrylate component is from about 5% to 50% by weight of the solid freeform composition, the oxidizing agent is from about 0.1% to 10% by weight of the solid freeform composition, the reducing agent is from about 0.1% to 10% by weight of the solid freeform composition, and the light sensitive initiator is from about 0.01% to 5% by weight of the solid freeform composition.
20. (Original) The composition of claim 17, wherein the binder is a polar binder.
21. (Currently Amended) The composition of claim 20, wherein a powder includes the basic component, the acidic component, a polyacrylate component, the fibers, and the oxidizing agent; and wherein the polar binder includes a polar solvent, an acrylate component, the reducing agent, the surface tension modifier, the viscosity modifier, and the light sensitive initiator.
22. (Currently Amended) The composition of claim 20, wherein a powder includes the basic component, a polyacrylate component, the fibers, and the oxidizing

agent; and wherein the polar binder includes a polar solvent, the acidic component, an acrylate component, the reducing agent, the surface tension modifier, the viscosity modifier, and the light sensitive initiator.

23. (Currently Amended) The composition of claim 20, wherein a powder includes the basic component, a first acidic component, a polyacrylate component, the fibers, and the oxidizing agent; and wherein the polar binder includes the polar solvent, a second acidic component, an acrylate component, the reducing agent, the surface tension modifier, the viscosity modifier, and the light sensitive initiator.
24. (Original) The composition of claim 17, further comprising components selected from a retardant, an inhibitor, a wetting agent, a colorant, an organic filler, an inorganic filler, and combinations thereof.
25. (Original) The composition of claim 24, wherein the organic filler is selected from polymethylmethacrylate, polyhydroxyethylmethacrylate, and combinations thereof.
26. (Original) The composition of claim 24, wherein the inorganic filler includes fumed silica.
27. (Withdrawn) The composition of claim 1, wherein the binder is a non-polar binder.
28. (Withdrawn) The composition of claim 17, wherein the binder is a non-polar binder.
29. (Newly Added) The composition of claim 1, further comprising a retardant.
30. (Newly Added) The composition of claim 1, further comprising an inhibitor.

31. (Newly Added) The composition of claim 1, wherein the fiber are selected from polymer fibers, ceramic fibers, carbon fibers, glass fibers, and combinations thereof.
32. (Newly Added) The composition of claim 17, wherein the fiber are selected from polymer fibers, ceramic fibers, natural fibers, carbon fibers, glass fibers, and combinations thereof